
SECTION 4 - EMERGENCY & FIRST AID MEASURES

Eyes:	Immediately flush eyes with water for at least 15 minutes. Seek medical attention.
Skin:	Remove contaminated clothing immediately. Flush area with water for at least 15 minutes. Seek medical attention.
Inhalation:	Move exposed subject to fresh air immediately. Give artificial respiration and cardiopulmonary resuscitation (CPR) if required. Seek medical attention.
Ingestion:	Flush mouth out with water immediately. Seek medical attention.
Contact Info:	For Adverse Event Information, please call (800) 551-7176 or (847) 969-2700.

SECTION 5 - FIRE FIGHTING MEASURES

Fire and Explosion Data

Closed Cup Flash Point:	NE
Open Cup Flash Point:	NE
Fire Point:	NE
Autoignition:	NE
Lower Explosion Limit:	NE
Upper Explosion Limit:	NE
General Hazard:	None
Fire Fighting Instructions:	Water spray, dry chemical, carbon dioxide, or foam as appropriate to surroundings.
Fire Fighting Equipment:	Wear self-containing breathing apparatus and protective clothing.
Hazardous Combustion Products:	None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Clean-Up:	Wear recommended personal protective equipment (See Section 8 - Exposure Controls/Personal Protection). Use absorbent towels or brooms to clean-up spill. Wipe surface area clean with soap and water.
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SECTION 7 - HANDLING AND STORAGE

General Handling: When handling pharmaceutical products, avoid all contact and inhalation of dust, fumes, mist, and/or vapors associated with the product.

Storage Conditions: Store at 25°C (77°F); excursions permitted to 15-30°C (59-86°C) [see USP Controlled Room Temperature].

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: General room ventilation is usually satisfactory. Use local exhaust ventilation if necessary.

Personal Protective Equipment

Eye Protection: Safety glasses or goggles recommended.

Hand Protection: Disposable latex gloves recommended.

Respiratory Protection: With satisfactory ventilation, respiratory protection is usually not required.

Skin Protection: Disposable garments if direct skin contact is anticipated.

Exposure Limits:

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Heparin Sodium (porcine intestinal mucosa)	OSHA	PEL	NE
	ACGIH	TLV	NE
	---	STEL	NE
Sodium Chloride	OSHA	PEL	NE
	ACGIH	TLV	NE
	---	STEL	NE
Methylparaben	OSHA	PEL	NE
	ACGIH	TLV	NE
	---	STEL	NE
Propylparaben	OSHA	PEL	NE
	ACGIH	TLV	NE
	---	STEL	NE
Benzyl Alcohol	OSHA	PEL	NE
	ACGIH	TLV	NE
	---	STEL	NE
Water for Injection	OSHA	PEL	NE
	ACGIH	TLV	NE
	---	STEL	NE

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form/ Appearance:	Clear, colorless to slightly yellow solution.
Boiling Point/Boiling Range:	NE
Melting Point/Melting Range:	NE
Freezing Point:	NE
Vapor Pressure :	NE
Relative Vapor Density:	NE
Percent Volatiles:	NE
pH:	5.0 - 7.5
Molecular Weight:	Variable
Solvent Solubility:	Soluble in water
Note:	NA

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Do not allow to freeze.
Hazardous Polymerization:	Will not occur

SECTION 11 - TOXICOLOGY INFORMATION

Signs & Symptoms of Exposure & Overexposure:	This product is intended for therapeutic use only when prescribed by a physician. Potential adverse reactions from prescribed doses and overdoses are described in the package insert. Adverse reactions from prescribed doses include: hemorrhage, local irritation, erythema, mild pain, hematoma, ulceration, hypersensitivity reactions (chills, fever, urticaria), asthma, rhinitis, lacrimation, headache, nausea, vomiting, anaphylactic reactions including shock, itching, burning, and thrombocytopenia. The chief sign of heparin overdose is bleeding (nosebleeds, blood in urine, tarry stools, easy bruising, or petechial formations). When clinical circumstances require reversal of heparinization, protamine sulfate should be administered. Occupational exposure has not been fully investigated.
Medical Conditions Aggravated by Accidental Exposure:	Individuals with documented hypersensitivity to heparin sodium and individuals with thrombocytopenia or increased risk for hemorrhage.

SECTION 11 - TOXICOLOGY INFORMATION...continued

Acute Toxicity:

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dosage</u>
Heparin Sodium (porcine intestinal mucosa)	LD ₅₀	Oral	Rat	4869 mg/kg
	LD ₅₀	Oral	Mouse	> 5 gm/kg
	LD ₅₀	IV	Rat	2449 mg/kg
	LD ₅₀	IV	Mouse	2800 mg/kg

Other:

IMMEDIATE EFFECTS:
Eye, skin, and respiratory irritation may occur.

DELAYED EFFECTS:
None known.

SECTION 12 - TRANSPORTATION INFORMATION

UN/NA Number: NA
U.S. DOT Hazard Class: NA
Proper Shipping Name: NA
Shipping Label: NA

SECTION 13 - DISPOSAL INFORMATION

Disposal Procedure : Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state, and local regulations.

SECTION 14 - OTHER

Key to Abbreviations: ACGIH - American Conference of Governmental Industrial Hygienists
HEPA - High Efficiency Particulate Air
IARC - International Agency for Research on Cancer
NA - Not Applicable
NE - Not Established
NG - Not Given
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OEL - Occupational Exposure Limit
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
PPM - Parts Per Million
QS - Quantity Sufficient
RCRA - Resource Conservation and Recovery Act

SECTION 14 - OTHER...continued

Key to**Abbreviations:**...continuedSTEL - Short Term Exposure Limit
TLV - Threshold Limit Value
USP - United States Pharmacopeia**Disclaimer:**

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